

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946405

Luminaire Tested: **GALN-SB2A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8169 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

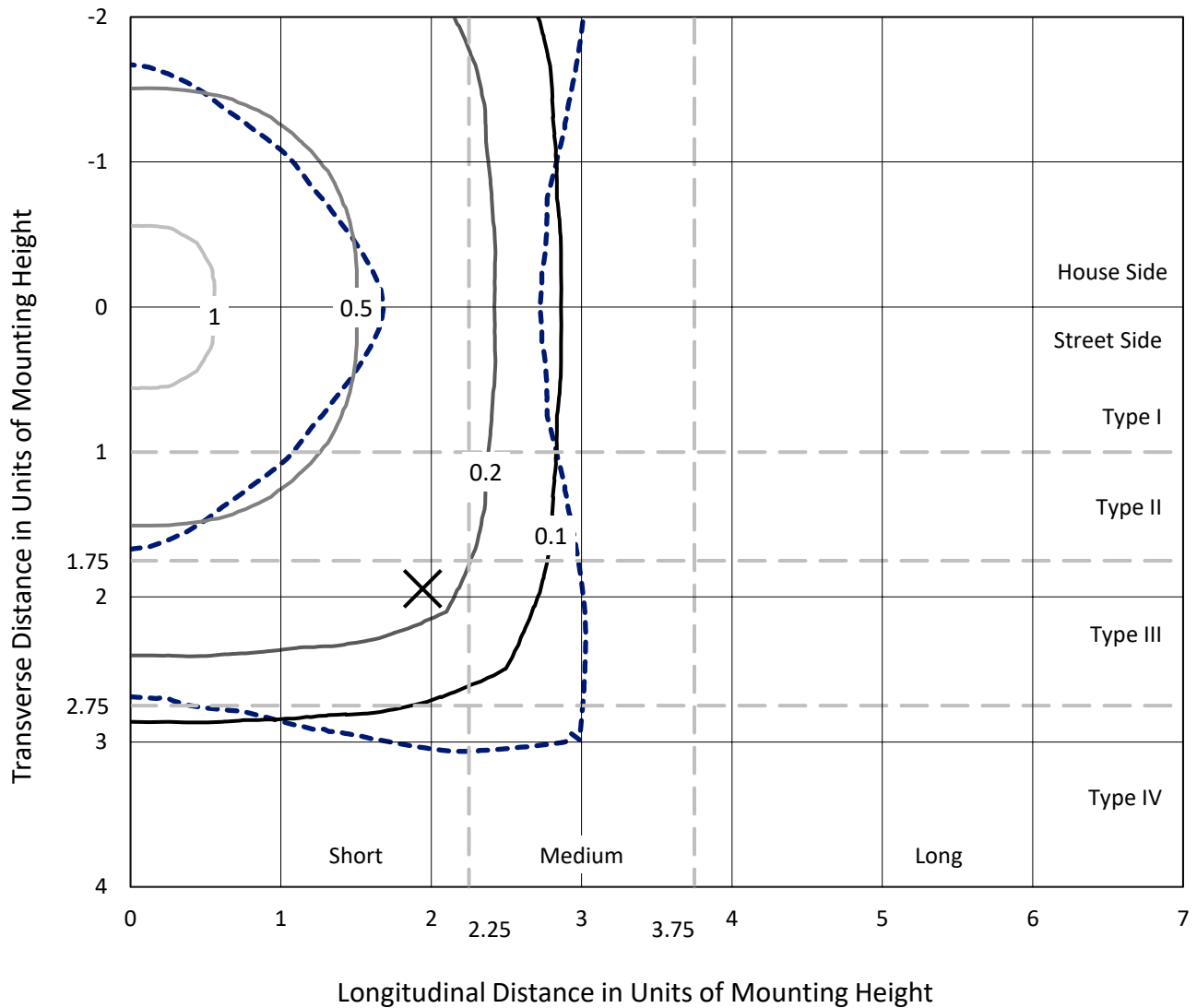
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

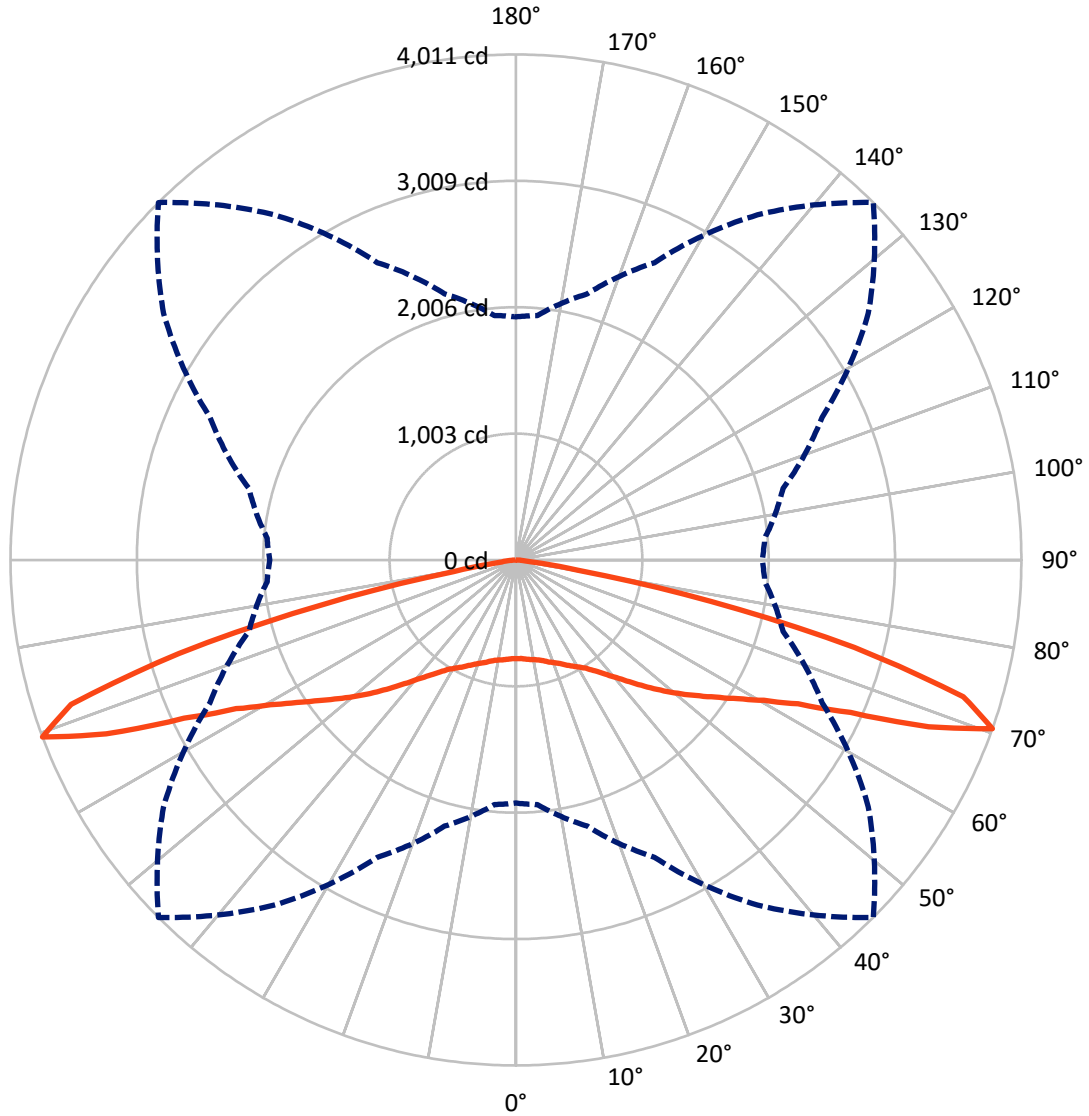
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4084.5	0.0	4084.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4084.5	0.0	4084.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8169.0	0.0	8169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	0.9
10°-20°	235.7	2.9
20°-30°	421.3	5.2
30°-40°	682.9	8.4
40°-50°	1112.3	13.6
50°-60°	1695.9	20.8
60°-70°	2523.0	30.9
70°-80°	1375.1	16.8
80°-90°	46.8	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8169.0	100.0
0°-180°	8169.0	100.0

Coefficient of Utilization



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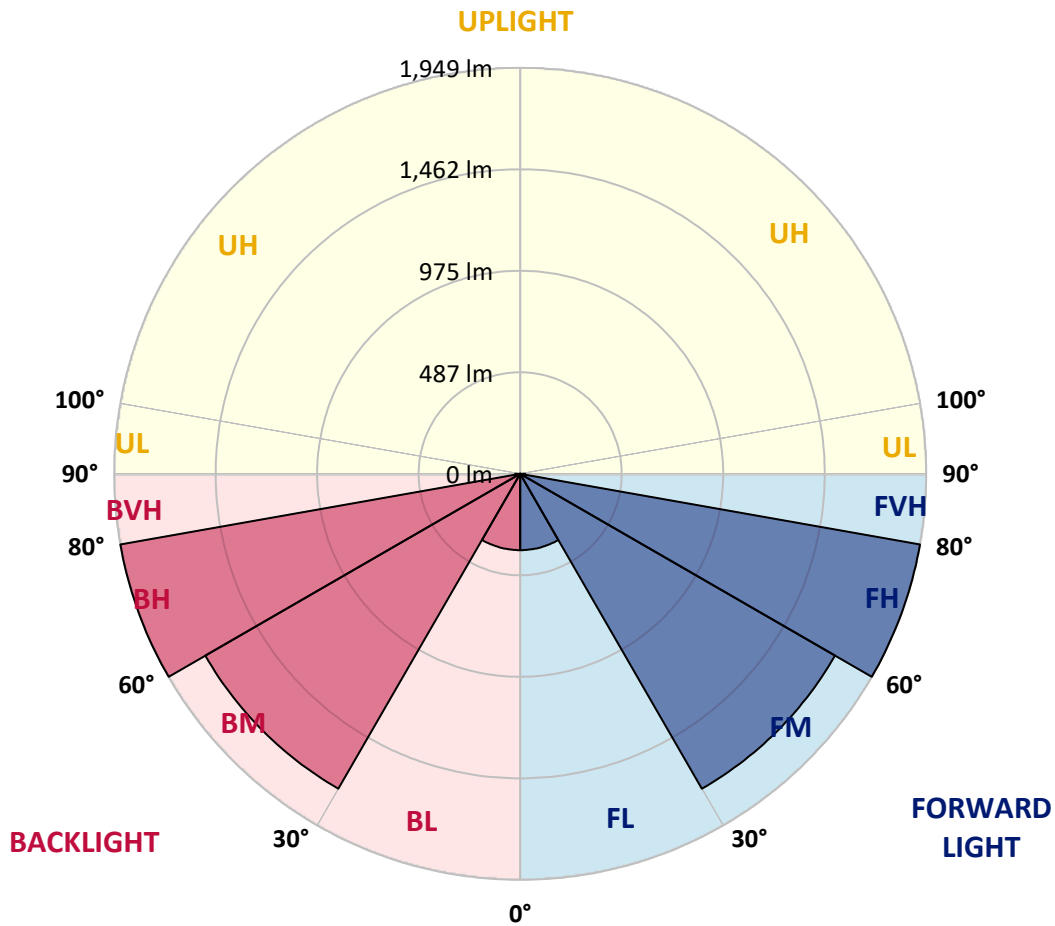
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.5	4.5			
FM (30°-60°)	1745.5	21.4			
FH (60°-80°)	1949.0	23.9			G2/5000
FVH (80°-90°)	23.4	0.3			G1/100
BL (0°-30°)	366.5	4.5	B1/500		
BM (30°-60°)	1745.5	21.4	B2/2500		
BH (60°-80°)	1949.0	23.9	B3/2500		G2/5000
BVH (80°-90°)	23.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	786.2	787.0	785.4	784.6	783.7	782.5	782.9	785.0	786.6	786.2
5°	792.8	793.6	792.3	791.9	790.3	789.9	789.9	791.9	793.2	792.3
7.5°	800.1	801.4	799.3	798.9	798.1	797.3	796.9	798.9	800.1	800.1
10°	807.1	808.3	806.7	805.5	804.7	804.7	803.8	805.5	807.5	807.1
12.5°	814.5	815.3	813.7	812.9	812.9	814.1	812.9	813.7	815.3	814.5
15°	823.5	823.9	823.5	824.7	826.8	830.9	827.2	826.4	827.2	825.2
17.5°	835.8	836.6	838.3	841.2	844.0	851.4	844.8	842.8	842.8	838.7
20°	851.0	852.2	854.7	859.6	863.3	870.3	863.7	860.8	859.6	854.3
22.5°	867.0	869.0	872.7	879.3	885.9	892.4	885.9	880.9	877.2	870.3
25°	885.4	887.9	893.6	904.3	913.3	922.8	915.0	905.1	897.7	887.9
27.5°	911.7	914.6	921.5	934.7	946.1	954.3	947.0	934.2	924.0	912.1
30°	948.6	951.5	959.7	973.6	981.4	986.7	981.8	972.0	959.7	946.1
32.5°	996.2	999.9	1008.9	1022.0	1023.7	1024.5	1022.8	1017.9	1008.9	992.5
35°	1056.5	1060.6	1070.8	1081.5	1079.8	1081.5	1079.0	1077.4	1070.8	1052.0
37.5°	1130.3	1135.2	1145.9	1154.1	1150.0	1147.9	1148.3	1148.7	1145.1	1124.1
40°	1216.0	1222.6	1230.4	1239.0	1232.0	1225.8	1229.9	1233.2	1229.9	1208.6
42.5°	1304.2	1313.6	1321.8	1334.1	1328.4	1320.6	1326.3	1330.0	1323.0	1300.1
45°	1402.2	1411.2	1421.9	1440.3	1436.2	1428.0	1436.2	1437.1	1425.2	1398.1
47.5°	1503.5	1512.9	1528.9	1553.5	1551.9	1542.9	1553.5	1547.8	1532.6	1500.2
50°	1599.5	1612.6	1637.2	1671.6	1674.9	1663.8	1678.2	1667.1	1641.7	1601.1
52.5°	1689.7	1703.6	1742.6	1789.3	1801.2	1786.9	1806.2	1786.9	1748.7	1696.7
55°	1784.4	1800.0	1846.4	1907.5	1931.2	1920.6	1938.6	1909.5	1855.4	1792.2
57.5°	1896.0	1905.4	1960.8	2033.4	2073.6	2076.0	2084.2	2035.0	1969.4	1897.6
60°	2017.0	2030.1	2090.4	2177.3	2240.9	2261.4	2252.8	2179.8	2103.5	2021.1
62.5°	2172.0	2186.3	2258.5	2362.7	2463.2	2514.0	2480.4	2374.6	2280.3	2181.4
65°	2300.4	2316.3	2446.8	2632.5	2815.5	2917.6	2833.1	2638.3	2468.5	2329.1
67.5°	2207.3	2226.9	2431.6	2772.8	3227.6	3532.3	3243.2	2814.6	2482.0	2293.0
70°	1929.2	1947.7	2186.3	2603.4	3343.7	4011.4	3413.4	2680.1	2194.1	1982.5
72.5°	1280.8	1340.3	1581.8	2082.2	2985.7	3712.0	3015.2	2039.9	1467.4	1277.9
75°	424.9	472.5	637.3	1079.4	1999.7	2776.1	1903.8	955.2	504.9	363.4
77.5°	107.0	123.4	170.2	308.8	797.7	1580.6	718.1	252.2	137.4	96.0
80°	52.1	57.4	82.0	102.9	199.7	502.4	187.4	96.8	64.8	50.0
82.5°	28.7	29.1	46.3	58.2	74.2	130.0	77.1	56.6	37.3	30.3
85°	17.6	17.2	24.6	31.2	31.2	46.3	36.9	31.2	21.3	18.9
87.5°	7.0	7.0	9.0	9.8	8.6	11.9	9.4	10.3	8.2	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
782.5
786.6
792.8
800.1
807.1
814.1
825.2
838.7
854.3
869.9
887.5
911.7
946.1
992.9
1052.0
1124.1
1208.6
1301.7
1401.0
1498.2
1600.3
1691.7
1783.6
1887.8
2007.9
2164.2
2306.1
2264.7
1954.2
1236.5
343.7
85.7
45.9
30.3
19.7
8.2
0.0

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